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1. That upon suggestion of the Chairman of the Council, Major General William M. Black has been appointed a member of the Council by the President of the National Academy of Sciences and has been designated by the President of the United States for such service. General Black has accepted such appointment and has furthermore been added to the membership of the Military Committee.

2. That leases of Rooms 304, 312, 313 and 314 in the Munsey Building have been taken for a period of ten months, beginning November 1, 1917, at the monthly rental of ninety-five dollars.

3. The following have been appointed and have accepted appointment as members of the Botanical Raw Products Committee; Prof. H. M. Hall, Professor of Botany, University of California; Mr. Arthur D. Little, President of Arthur D. Little, Incorporated, Boston; and Dr. W. W. Stockberger, physiologist in charge of drug plant and poisonous plant investigations, U. S. Department of Agriculture.

4. Upon request of the Chairman of the Chemistry Committee, record is made of the following additions to membership in the Sub-committee on Biochemistry:

William J. Gies, Professor of Biochemistry, Columbia University; Lawrence J. Henderson, Assistant Professor of Biochemistry, Harvard University.

Mr. Hale, upon invitation of the Chairman, stated that the primary purpose in calling the present meeting was to afford opportunity for necessary discussion relative to the development and organization of the Council.

Upon request, Mr. Hale outlined proposed plans with regard to the development of the Council, and spoke at length concerning the possibility of obtaining financial assistance in its work. Extended discussion took place, emphasizing the important possibilities of the Council's various fields of work, as indicated in a written statement presented by Mr. Hale. Upon motion of Mr. Noyes, it was voted that these preliminary plans, as submitted and outlined by the Chairman of the Council, be substantially approved.

Upon motion it was also voted that the duties of the Sub-committee of the Executive Committee, authorized at the last meeting of the Committee to consider and report with reference to questions of organization and Governmental relations, be increased by requesting this Sub-committee likewise to undertake careful consideration of plans which have been approved for the future development of the Council. This Sub-committee was thereupon appointed to consist of Mr. Hale, Chairman, and Messrs. Carty, Dunn, Millikan, Noyes, Pearl, Vaughan and Walcott.

The meeting adjourned at 12.45 p.m.

CARY T. HUTCHINSON, *Secretary*.

LIST OF PUBLICATIONS OF THE NATIONAL ACADEMY OF SCIENCES

From the year 1864 to date the National Academy of Sciences has published at various times Scientific Memoirs, Biographical Memoirs, Annual Reports, Proceedings, and Reports of Committees. The detailed list of titles, with the number of pages and the year of publication, is given below.

MEMOIRS OF THE NATIONAL ACADEMY OF SCIENCES

VOLUME I. 1866

1. Reduction of the observations of fixed stars made by Joseph LePaute D'Agelet, at Paris, in 1783-1785, with a catalogue of the corresponding mean places, referred to the Equinox of 1800.0. BENJAMIN APTHORP GOULD. Read January 8, 1864. Pp. 1-261.
2. The Saturnian system. BENJAMIN PEIRCE. Read January 8, 1864. Pp. 263-286.
3. On the distribution of certain diseases in reference to hygienic choice of location for the cure of invalid soldiers. AUGUSTUS A. GOULD. Read August 5, 1864. Pp. 287-290.
4. On shooting stars. H. A. NEWTON. Read August 6, 1864. Pp. 291-312.
5. Rifled guns. W. H. C. BARTLETT. Read August 25, 1865. Pp. 313-343.

VOLUME II. 1884

1. Report of the eclipse expedition to Caroline Island, May, 1883. Pp. 5-146.
2. Experimental determination of wave-lengths in the invisible prismatic spectrum. S. P. LANGLEY. April, 1883. 4 plates. Pp. 147-162.
3. On the subsidence of particles in liquids. WILLIAM H. BREWER. Read November 15, 1883. Pp. 163-175.
4. Upon the formation of a deaf variety of the human race. ALEXANDER GRAHAM BELL. Read November 13, 1883. Pp. 177-262.

VOLUME III. (PART 1.) 1885

1. The sufficiency of terrestrial rotation for the deflection of streams. G. K. GILBERT. Read April 15, 1884. Pp. 5-10.
2. On the temperature of the surface of the Moon. From researches made at the Allegheny Observatory by S. P. LANGLEY, assisted by F. W. VERY and J. E. KEELER. Read October 17, 1884. Plates 1-6. Pp. 11-42.
3. On a method of precisely measuring the vibratory periods of tuning-forks, and the determination of the laws of the vibrations of forks; with special reference to these facts and laws to the action of a simple chronoscope. ALFRED M. MAYER. Plates 1-4. Pp. 45-59.
4. The Baumé hydrometers. C. F. CHANDLER. Read at Philadelphia meeting, 1881. Pp. 61-71.
5. On small differences of sensation. C. S. PEIRCE and J. JASTROW. Read October 17, 1884. Pp. 73-83.
6. Description of an articulate of doubtful relationship from the Tertiary beds of Florissant, Colorado. SAMUEL H. SCUDDER. Read April 20, 1882. Pp. 85-90.
7. The structure of the columella auris in the Pelycosauria. E. D. COPE. Read October 16, 1884. Pp. 93-95.
8. On the structure of the brain of the sessile-eyed Crustacea. I. The Brain of Asellus and the eyeless form Cecidotæa. A. S. PACKARD. Plates 1-5. Pp. 97-110.

VOLUME III. (PART 2.) 1886

9. Contributions to meteorology. ELIAS LOOMIS. Plates 1-16. Pp. 5-66.
10. On Flamsteed's stars "observed, but not existing." C. H. F. PETERS. Read November 11, 1885. Pp. 67-83.

11. Corrigenda in various star catalogues. C. H. F. PETERS. Read November 12, 1885. Pp. 85-97.
12. Ratio of meter to yard. C. B. COMSTOCK. Read April 21, 1885. Pp. 99-102.
13. On composite photography as applied to craniology. J. S. BILLINGS. And on measuring the cubic capacity of skulls. WASHINGTON MATTHEWS. Read April 22, 1885. 20 plates. Pp. 103-116.
14. On a new craniophore for use in making composite photographs of skulls. J. S. BILLINGS and WASHINGTON MATTHEWS. Read November 12, 1885. 4 plates. Pp. 117-119.
15. I. On the Syncarida, a hitherto undescribed synthetic group of extinct Malacostracous Crustacea. A. S. PACKARD. Read April 21, 1885. Plates 1-2. Pp. 121-128.
 II. On the Gampsonychidae, an undescribed family of fossil Schizopod Crustacea. A. S. PACKARD. Read April 21, 1885. Plate 3. Pp. 129-133.
 III. On the Anthracaridae, a family of Carboniferous Macrurous Decapod Crustacea. A. S. PACKARD. Read April 21, 1885. Plate opposite page 137, and Plate 4. Pp. 135-139.
16. On the Carboniferous Xiphosurous fauna of North America. A. S. PACKARD. Read November 13, 1885. Plate opposite page 150, and Plates 5-7. Pp. 141-157.
17. On two new forms of Polyodont and Goniorhynchid fishes from the Eocene of the Rocky Mountains. E. D. COPE. Read November 12, 1885. 1 Plate. Pp. 159-165.
 Notes on the Third Memoir, page 45, Part I. ALFRED M. MAYER. Pp. 167-169.

VOLUME IV. (PART 1.) 1888

1. The cave fauna of North America, with remarks on the anatomy of the brain and origin of the blind species. A. S. PACKARD. Read November 9, 1886. Plates 1-27. Pp. 1-156.
2. The solar and lunar spectrum. S. P. LANGLEY. Read November 9, 1886. 6 Plates. Pp. 157-170.
3. On the reduction of photographic observations, with a determination of the position of the Pleiades, from photographs by Mr. Rutherford. BENJAMIN APTHORP GOULD. Presented August 11, 1866. Pp. 171-190.
4. Reduction of photographic observations of the Præsepe. BENJAMIN APTHORP GOULD. Presented April 14, 1870. Pp. 191-199.
5. Balance for determining specific gravities by inspection. F. A. P. BARNARD. 1 Plate. Pp. 201-205.
6. Theory of magic squares and of magic cubes. F. A. P. BARNARD. Pp. 206-270.

VOLUME IV. (PART 2.) 1889

7. Contributions to meteorology. ELIAS LOOMIS. Plates 17-32. Pp. 5-77.
8. On the determination of elliptic orbits from three complete observations. J. WILLARD GIBBS. Pp. 79-104.
9. The temperature of the Moon. S. P. LANGLEY. Read November, 1887. Plates 1-26. Pp. 105-212.
10. On the Lucayan Indians. W. K. BROOKS. Read November, 1887. Plates 1-12. Pp. 213-222.

VOLUME V. 1891

1. Energy and vision. S. P. LANGLEY. Read April 15, 1888. 4 Plates. Pp. 5-18.
2. Contributions to meteorology. ELIAS LOOMIS. Plates 33-51. Pp. 19-109.
3. Report of studies of atmospheric electricity. T. C. MENDENHALL. Read April 18, 1889. Pp. 111-318.

4. The embryology and metamorphosis of the Macroura. W. K. BROOKS and F. H. HERRICK. Plates 1-57. Pp. 319-576.
5. On the application of interference methods to astronomical measurements. A. A. MICHELSON. 7 Plates. Pp. 577-590.

VOLUME VI. 1893

1. On the capture of comets by planets, especially their capture by Jupiter. H. A. NEWTON. Pp. 5-23.
2. A study on the relation of atmospheric electricity, magnetic storms, and weather elements to a case of traumatic neuralgia. ROBERT CATLIN. 7 Plates. Pp. 25-33.
3. On certain new methods and results in optics. CHARLES S. HASTINGS. Pp. 35-47.
4. The proteids or albuminoids of the oat kernel. THOMAS B. OSBORNE. Presented November 13, 1890, and November 10, 1891. Pp. 49-87.
5. A comparison of antipodal faunas. THEODORE GILL. Read November, 1887. Pp. 89-124.
6. Families and sub-families of fishes. THEODORE GILL. Pp. 125-138.
7. Human bones of the Hemenway Collection in the United States Army Medical Museum. DR. WASHINGTON MATTHEWS. With observations on the Hyoid bones of this collection. DR. J. L. WORTMAN. Reports presented to the National Academy of Sciences, with approval of the Surgeon-General of the United States Army. DR. J. S. BILLINGS. Plates 1-59. Pp. 139-286.
8. Further studies on the brain of *Limulus Polyphemus*, with notes on its embryology. ALPHEUS S. PACKARD. Plates 1-36. Pp. 287-331.

VOLUME VII. 1895

1. Monograph of the Bombycine moths of America, north of Mexico, including their transformations and origin of the larval markings and armature. Part I. Family I. Notodontiadae. ALPHEUS S. PACKARD. Plates 1-49, Maps 1-10. 1895. Pp. 3-390.
2. On reaction-times and the velocity of the nervous impulse. J. McKEEN CATTELL and CHARLES S. DOLLEY. Presented at Albany meeting, 1893. Pp. 391-415.
3. The bacteria of river waters. JOHN S. BILLINGS. Including a paper on the bacteria of the Schuylkill River, by J. H. WRIGHT, and Appendix by Dr. OLMSTEAD. Plates 1-5, Diagrams 1-5. Pp. 417-484.

VOLUME VIII. 1902

1. Notes on the bacteriological examination of the soil of Philadelphia. MAZÛCK P. RAVENEL. 4 Plates. 1896. Pp. 1-41.
2. A contribution to the study of the effect of the venom of *Crotalus Adamanteus* upon the blood of man and animals. S. WEIR MITCHELL and ALONZO H. STEWART. Plates 1-6. 1898. Pp. 43-56.
3. General perturbations of Minerva (93), by Jupiter, including terms only of the first order with respect to the mass, together with a correction of elements. W. S. EICHELBERGER. 1899. Pp. 57-77.
4. *Ophiura Brevispina*. W. K. BROOKS and CASWELL GRAVE. Plates 1-3. 1899. Pp. 79-100.
5. Anatomy of *Nautilus Pompilius*. LAWRENCE EDMONDS GRIFFIN. Plates 1-17. 1900. Pp. 101-230.
6. An experimental inquiry regarding the nutritive value of alcohol. W. O. ATWATER and F. G. BENEDICT. 1902. Pp. 231-397.
7. West Indian Madreporarian Polyps. J. E. DUERDEN. Plates 1-25. 1902. Pp. 399-648.

VOLUME IX. 1905

Monograph of the Bombycine moths of North America, including their transformations and origin of the larval markings and armature. Part II. Family Ceratocampidae, subfamily Ceratocampinae. ALPHEUS SPRING PACKARD. Plates 1-61. 1905. Pp. 1-272.

VOLUME X. 1911

1. The absolute value of the acceleration of gravity determined by the ring-pendulum method. CHARLES E. MENDENHALL. Plates 1-3. 1905. Pp. 1-23.
2. Claytonia gronov. A morphological and anatomical study. THEODORE HOLM. Plates 1-2. 1905. Pp. 25-37.
3. A research upon the action of alcohol upon the circulation. HORATIO C. WOOD and DANIEL M. HOYT. Plates 1-3. 1905. Pp. 39-70.
4. Phoronis architecta: Its life history, anatomy, and breeding habits. WILLIAM KEITH BROOKS and REINART PARKER COWELS. Plates 1-17. 1905. Pp. 71-148.
5. The affinities of the pelagic tunicates. No. 1. On a new Pyrosoma (Dipleurosoma elliptica). WILLIAM KEITH BROOKS. Plates 1-2. 1906. Pp. 149-156.
6. Commelinaceae. Morphological and anatomical studies of the vegetative organs of some North and Central American species. THEODORE HOLM. Plates 1-8. 1906. Pp. 157-192.
7. Tables of minor planets discovered by James C. Watson. Part I. Tables of (93) Minerva, (101) Helena, (103) Hera, (105) Artemis, (115) Thyra, (119) Althaea, (128) Nemesis, (133) Cyrene, (139) Juwera, (161) Athor, (174) Phaedra, (179) Klytaemnestra. With the assistance of R. T. CRAWFORD, FRANK ROSS, BURT L. NEWKIRK, ADELAIDE M. HOBE, ESTELLE GLANCY, and others. Being in part a continuation of previous investigations by E. BECKER, W. S. EICHELBERGER, WILLIAM MC-KNIGHT RITTER, and G. K. LAWTON. ARMIN O. LEUSCHNER. 1910. Pp. 193-374

VOLUME XI. 1913

Agave in the West Indies. WILLIAM TRELEASE. Plates A-E, 1-116. 1913. Pp. 3-298

VOLUME XII. (PART 1.) 1914

1. Monograph of the Bombycine moths of North America, including their transformations and origin of the larval markings and armature. Part III. Families Ceratocampidae (exclusive of Ceratocampinae), Saturniidae, Hemileucidae, and Brahmaeidae. ALPHEUS SPRING PACKARD, edited by THEODORE D. A. COCKERELL, being a continuation of previous investigations published as Volume VII (First Memoir) and Volume IX (Second Memoir) of the Memoirs of the National Academy of Sciences. Plates 1-113. 1914. Pp. 1-516.

VOLUME XII. (PART 2.) 1915

2. The variations and ecological distribution of the snails of the genus *Io*. CHARLES C. ADAMS. Plates 1-61. Pp. 1-184.
3. The turquoise. A study of its history, mineralogy, geology, ethnology, archaeology, mythology, folklore, and technology. JOSEPH E. POGUE, Ph.D., Plates 1-22. 1915. Pp. 1-206.

VOLUME XIII. 1915

1. Catalogue of the meteorites of North America, to January 1, 1909. OLIVER CUMMINGS FARRINGTON. Plates 1-36. 1915. Pp. 1-513.

VOLUME XIV

1. Report on researches on the chemical and mineralogical composition of meteorites, with especial reference to their minor constituents. GEORGE PERKINS MERRILL, 1916. Pp. 1-29.

BIOGRAPHICAL MEMOIRS

VOLUME I. 1877

- Joseph Stillman Hubbard, 1823-1863. B. A. GOULD. Read August 5, 1864. Pp. 1-34.
 Joseph Gilbert Totten, 1788-1864. J. G. BARNARD. Read January 6, 1866. Pp. 35-97.
 Benjamin Silliman, Sr., 1779-1864. ALEXIS CASWELL. Read January 25, 1866. Pp. 99-112.
 Edward Hitchcock, 1793-1864. J. P. LESLEY. Read August 9, 1866. Pp. 113-134.
 James Melville Gillis, 1811-1865. BENJAMIN APTHORP GOULD. Read January 26, 1866. Pp. 135-179.
 Alexander Dallas Bache, 1806-1867. JOSEPH HENRY. Read April 16, 1869. Pp. 181-212d.
 John H. Alexander, 1812-1867. J. E. HILGARD. Read April 18, 1872. Pp. 213-226.
 William Chauvenet, 1820-1870. J. H. C. COFFIN. Read April 16, 1873. Pp. 227-244.
 John Fries Frazer, 1812-1872. JOHN L. LECONTE. Read October 22, 1873. Pp. 245-256.
 James Henry Coffin, 1806-1873. A. GUYOT. Read April 24, 1874. Pp. 257-264.
 John Torrey, 1796-1873. ASA GRAY. Read April 15, 1873. Pp. 265-276.
 William Starling Sullivant, 1803-1873. ASA GRAY. Read April 22, 1875. Pp. 277-285.
 Joseph Saxton, 1799-1873. JOSEPH HENRY. Read October 4, 1874. Pp. 287-316.
 Henry James Clark, 1826-1873. A. S. PACKARD, JR. Read April 23, 1874. Pp. 317-328.
 Joseph Winlock, 1826-1875. JOSEPH LOVERING. Read April 19, 1876. Pp. 329-343.

VOLUME II. 1886

- Theodore Strong, 1790-1869. JOSEPH P. BRADLEY. Read April 17, 1879. Pp. 1-28.
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 John Lawrence Smith, 1818-1883. BENJAMIN SILLIMAN. Read April 17, 1884. Pp. 217-248.
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 John William Draper, 1811-1882. GEORGE F. BARKER. Read April 21, 1886. Pp. 349-388.

VOLUME III. 1895

- William Barton Rogers, 1804-1882. FRANCIS A. WALKER. Read April, 1887. Pp. 1-13.
 Edward Tuckerman, 1817-1886. W. G. FARLOW. Read April, 1887. Pp. 15-28.

- Edward B. Hunt, 1822-1863. F. A. P. BARNARD. Read August, 1864. Pp. 29-41.
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 Henry Draper, 1837-1882. GEORGE F. BARKER. Read April 18, 1888. Pp. 81-139.
 Spencer Fullerton Baird, 1823-1887. JOHN S. BILLINGS. Read April 17, 1889. Pp. 141-160.
 Asa Gray, 1810-1888. W. G. FARLOW. Read April 17, 1889. Pp. 161-175.
 John Call Dalton, 1825-1889. S. WEIR MITCHELL. Read April 16, 1890. Pp. 177-185.
 Leo Lesquereux, 1806-1889. J. P. LESLEY. Read April 16, 1890. Pp. 187-212.
 Elias Loomis, 1811-1889. H. A. NEWTON. Read April 16, 1890. Pp. 213-252.
 Jonathan Homer Lane, 1819-1880. CLEVELAND ABBE. Read April, 1892. Pp. 253-264.
 William Ferrel, 1817-1891. CLEVELAND ABBE. Read April, 1892. Pp. 265-309.
 Montgomery Cunningham Meigs, 1816-1892. HENRY L. ABBOT. Read April, 1893. Pp. 311-326.
 James Erasmus Hilgard, 1825-1890. E. W. HILGARD. Read April, 1893. Pp. 327-338.
 Amos Henry Worthen, 1813-1888. CHARLES A. WHITE. Read November, 1893. Pp. 339-362.
 William P. Trowbridge, 1825-1892. C. B. COMSTOCK. Read November, 1893. Pp. 363-367.
 John Le Conte, 1818-1891. JOSEPH LE CONTE. Read April, 1894. Pp. 369-393.
 Ferdinand Vandiveer Hayden, 1839-1887. CHARLES A. WHITE. (With portrait). Read November, 1894. Pp. 395-413.
 Lewis Morris Rutherfurd, 1816-1892. B. A. GOULD. Read April, 1895. Pp. 415-441.

VOLUME IV. 1902

- George Engelmann, 1809-1884. CHARLES A. WHITE. Read April, 1896. Pp. 1-21.
 Charles Henry Davis, 1807-1877. C. H. DAVIS. Read April, 1896. Pp. 23-55.
 James Edward Oliver, 1829-1895. G. W. HILL. Read April, 1896. Pp. 57-74.
 Fielding Bradford Meek, 1817-1876. CHARLES A. WHITE. Read November, 1896. Pp. 75-91.
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 George Hammell Cook, 1818-1889. G. K. GILBERT. Read April 21, 1897. Pp. 135-144.
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 William Augustus Rogers, 1832-1898. EDWARD D. MORLEY. Read November, 1899. Pp. 185-199.
 Frederick Augustus Genth, 1820-1893. (With portrait.) GEORGE F. BARKER. Read November 12, 1901. Pp. 201-231.
 John Newton, 1823-1895. CYRUS B. COMSTOCK. Read November 13, 1901. Pp. 233-240.

VOLUME V. 1905

- Joseph Henry, (1797-1878). (With portrait.) SIMON NEWCOMB. Read April 21, 1880. Pp. 1-45.
 John Edwards Holbrook, 1794-1871. (With portrait.) THEODORE GILL. Read April 22, 1903. Pp. 47-77.
 Louis François de Pourtalès, 1824-1880. (With portrait.) ALEXANDER AGASSIZ. Read April 22, 1881. Pp. 79-89.

- Augustus Addison Gould, 1805-1866. (With portrait.) JEFFRIES WYMAN. With additions by WILLIAM HEALEY DALL. Read April 22, 1903. Pp. 91-113.
- Henry Augustus Rowland, 1848-1901. (With portrait.) THOMAS C. MENDENHALL. Read April 23, 1903. Pp. 115-140.
- Theodore Lyman, 1833-1897. (With portrait.) H. P. BOWDITCH. Read April 23, 1903. Pp. 141-153.
- Matthew Carey Lea, 1823-1897. (With portrait.) GEORGE F. BARKER. Read April 21, 1903. Pp. 155-208.
- Francis Amasa Walker, 1840-1897. (With portrait.) JOHN S. BILLINGS. Read April 17, 1902. Pp. 209-218.
- John Gross Barnard, 1815-1882. (With portrait.) HENRY L. ABBOT. Read April 17, 1902. Pp. 219-229.
- James Edward Keeler, 1857-1900. (With portrait.) CHARLES S. HASTINGS. Read April 23, 1903. Pp. 231-246.
- James Hadley, 1821-1872. (With portrait.) ARTHUR TWINING HADLEY. Read April 21, 1904. Pp. 247-254.
- Henry Barker Hill, 1849-1903. (With portrait.) CHARLES LORING JACKSON. Read April 21, 1904. Pp. 255-266.
- Sereno Watson, 1820-1892. (With portrait.) WILLIAM H. BREWER. Read November 17, 1903. Pp. 267-290.
- Robert Empie Rogers, 1813-1884. (With portrait.) EDGAR FAHS SMITH. Read November 15, 1904. Pp. 291-309.

VOLUME VI. 1909

- John Strong Newberry, 1822-1892. (With portrait.) CHARLES A. WHITE. Read April 17, 1902. Pp. 1-24.
- Clarence King, 1842-1901. (With portrait.) SAMUEL FRANKLIN EMMONS. Read April 23, 1903. Pp. 25-55.
- Charles Emerson Beecher, 1856-1904. (With portrait.) WILLIAM HEALEY DALL. Read November 16, 1904. Pp. 57-70.
- George Perkins Marsh, 1801-1882. (With portrait.) WILLIAM M. DAVIS. Read April 18, 1906. Pp. 71-80.
- John Rodgers, 1812-1882. (With portrait.) ASAPH HALL. Read April 18, 1906. Pp. 81-92.
- Fairman Rogers, 1833-1900. (With portrait.) EDGAR F. SMITH. Read November 22, 1906. Pp. 93-107.
- William Augustus Rogers, (1832-1898). (With portrait.) Part II. ARTHUR SEARLE. (Astronomical work of Rogers). Part I of biography published in Volume IV, Biographical Memoirs, pp. 185-199). Pp. 109-117.
- Samuel Lewis Penfield, 1856-1906. (With portrait.) HORACE L. WELLS. Read April 18, 1907. Pp. 119-146.
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- Lewis Henry Morgan, 1818-1881. (With portrait.) W. H. HOLMES. Read November 20, 1907. Pp. 219-239.
- Asaph Hall, 1829-1907. (With portrait.) GEORGE WILLIAM HILL. Read April 23, 1908. Pp. 241-309.
- Alpheus Hyatt, 1838-1902. (With portrait.) WILLIAM KEITH BROOKS. Read April 23, 1908. Pp. 311-325.
- Joseph Lovering, 1813-1892. (With portrait.) B. OSGOOD PEIRCE. Read November 18, 1908. Pp. 327-344.
- William More Gabb, 1839-1878. (With portrait.) WILLIAM H. DALL. Read November 18, 1908. Pp. 345-361.

- Alexis Caswell, 1799–1877. (A reprint.) (With portrait.) JOSEPH LOVERING. Pp. 363–372.
- Josiah Willard Gibbs, 1839–1903. (With portrait.) CHARLES S. HASTINGS. Read November, 1909. Pp. 373–393.
- Elliott Coues, 1842–1899. (With portrait.) J. A. ALLEN. Read April, 1909. Pp. 395–446.
- Ogden Nicholas Rood, 1831–1902. (With portrait.) EDWARD L. NICHOLS. Read April, 1909. Pp. 447–472.

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- Wolcott Gibbs, 1822–1908. (With portrait.) F. W. CLARKE. Published February, 1910. Pp. 1–22.
- William Keith Brooks, 1848–1908. (With 2 portraits.) EDWIN GRANT CONKLIN. Read at the Autumn meeting, 1909. Pp. 23–88.
- Charles Augustus Young, 1834–1908. (With portrait.) EDWIN B. FROST. Read at the Autumn meeting, 1909. Pp. 89–114.
- Benjamin Silliman, 1816–1885. (With portrait.) ARTHUR W. WRIGHT. Read at the April meeting, 1911. Pp. 115–141.
- James Hammond Trumbull, 1821–1897. (With portrait.) ARTHUR W. WRIGHT. Read at the April meeting, 1911. Pp. 143–169.
- William H. C. Bartlett, 1804–1893. (With portrait.) EDWARD S. HOLDEN. Read at the April meeting, 1911. Pp. 171–193.
- Cyrus Ballou Comstock, 1831–1910. (With portrait.) HENRY L. ABBOT. Read at the April meeting, 1911. Pp. 195–201.
- Samuel William Johnson, 1830–1909. (With portrait.) THOMAS B. OSBORNE. Read at the April meeting, 1911. Pp. 203–222.
- Charles Abiathar White, 1828–1910. (With portrait.) WILLIAM H. DALL. Read at the April meeting, 1911. Pp. 223–243.
- Samuel Pierpont Langley, 1834–1906. (With portrait.) CHARLES D. WALCOTT. Read at the Autumn meeting, 1911. Pp. 245–268.
- Charles Otis Whitman, 1842–1910. (With portrait.) EDWARD S. MORSE. Read at the Annual Meeting, 1912. Pp. 269–288.
- Alexander Agassiz, 1835–1910. (With portrait.) GEORGE LINCOLN GOODALE. Read at the Annual meeting, 1912. Pp. 289–305.
- Samuel Franklin Emmons, 1841–1911. (With portrait.) ARNOLD HAGUE. Read at the Annual meeting, 1912. Pp. 307–334.
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- John Wesley Powell, 1834–1902. (With portrait.) W. M. DAVIS. Presented at the Autumn meeting, 1913. Pp. 11–83.
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- Alfred Marshall Mayer, 1836-1897. (With portrait.) ALFRED G. MAYER and ROBERT S. WOODWARD. Presented at the Autumn Meeting, 1915. Pp. 243-272.
- George William Hill, 1838-1914. (With portrait.) ERNEST W. BROWN. Presented at the Annual Meeting, 1915. Pp. 275-309.
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- Edward Singleton Holden, 1846-1914. (With portrait.) W. W. CAMPBELL. Presented at the Annual Meeting, 1916. Pp. 347-372.
- John Shaw Billings, 1838-1913. (With portrait.) S. WEIR MITCHELL. With *The Scientific Work of John Shaw Billings*, by FIELDING H. GARRISON. Presented at the Annual Meeting, 1916. Pp. 375-416.

PROCEEDINGS

- Volume I. 1896. 8°. Pp. 1-406. Part 1. Pp. 1-120. Published 1877. Part 2. Pp. 121-240. Published 1886. Part 3. Pp. 241-406. Published 1896.
- Volume 1. 1915. Pp. xii + 645.
- Volume 2. 1916. Pp. xiii + 760.
- Volume 3. 1917. Pp. xiv + 767.

REPORTS OF COMMITTEES

- (Report on the question of the value of the water-proofing process employed in the manufacture of the fractional currency.) In House Misc. Doc. no. 163, part 2, 44th Congress, 1st Session, pp. 22-28. April 3, 1876.
- Forty-fifth Congress, 3rd Session, House of Representatives Misc. Doc. no. 5. *Surveys of the Territories. Letter from the Acting President of the National Academy of Sciences, transmitting a report on the surveys of the Territories.* Ordered printed, December 3, 1878. 8°. Pp. 1-27.
- Forty-seventh Congress, 2d Session. Senate Misc. Doc. no. 51. *National Academy of Sciences. Investigation of the scientific and economic relations of the sorghum sugar industry, being a report made in response to a request from the Hon. George B. Loring, U. S. Commissioner of Agriculture, by a committee of the National Academy of Sciences.* November, 1882. Washington: Government Printing Office. 1883. 8°. Pp. 1-152.
- United States Internal Revenue. *Report on glucose, prepared by the National Academy of Sciences, in response to a request made by the Commissioner of Internal Revenue.* Washington: Government Printing Office. 1884. 8°. Pp. 1-108.
- Report of committee of National Academy of Sciences concerning classification of Donskoi wool, January 30, 1886.* 1886. Treasury Department Doc. no. 805.
- Forty-ninth Congress, 1st Session. Senate, Ex. Doc. no. 67. *Letter from the Secretary of the Navy, transmitting, in compliance with the Senate resolution, February 2, 1886, report of the National Academy of Sciences upon the proposed new Naval Observatory.* Ordered printed, February 10, 1886.
- (Report on the organization of the National Surveys and the Signal Service.) In Senate Misc. Doc. no. 82, 49th Congress, 1st Session. Pp. 1-37. Ordered printed, March 16, 1886. 1886.
- National Academy of Sciences. *Standards for Electrical Measure, February 20, 1895.* Printed for the Academy. Washington: Judd & Detweiler, Printers. 1895. 8°. Pp. 1-9.
- Fifty-third Congress, 3rd Session. Senate, Misc. Doc. no. 115. *Report of the National Academy of Sciences, made in compliance with a requirement of the law (H. R. 6500) entitled "an act to define and establish the units of electrical measure," approved July 12, 1894.* Ordered printed, February 19, 1895.

Report of the committee appointed by the National Academy of Sciences upon the inauguration of a forest policy for the forested lands of the United States to the Secretary of the Interior, May 1, 1897. Washington: Government Printing Office. 1897. Pp. 1-47.

Fifty-eighth Congress, 3d Session. Senate Doc. no. 145. Report by committee appointed by Academy to consider desirability of instituting scientific explorations of Philippine Islands. Pp. 1-22. 8°. Ordered printed, February 7, 1905.

Sixtieth Congress, 2d Session. House of Representatives, Doc. no. 1337. Conduct of scientific work under United States Government. Message from the President of the United States, transmitting report of the National Academy of Sciences relating to the conduct of the scientific work under the United States Government. Pp. 1-5. 8°. Ordered printed, January 18, 1909.

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REPORT OF THE AUTUMN MEETING

Prepared by the Home Secretary

The Autumn Meeting of the Academy was held in the Engineering Building of the University of Pennsylvania at Philadelphia, on November 20 and 21, 1917.

Fifty-five members were present as follows: Messrs. C. G. Abbott, Bailey, Bogert, Carty, F. W. Clarke, J. M. Clarke, Conklin, Coulter, Cross, Davenport, Day, Donaldson, Farlow, Flexner, Hale, E. H. Hall, Halsted Harper, Harrison, Holmes, Howard, Howe, Howell, Iddings, Jennings, Kasner, Leuschner, Levene, Loeb, Lusk, Mayer, Meltzer, Mendel, Millikan, Morgan, E. S. Morse, E. L. Nichols, A. A. Noyes, H. F. Osborn, Pearl, Pupin, Reid, Schlesinger, Scott, Alexander Smith, Edgar F. Smith, Erwin F. Smith, Stratton, Thomson, Thorndike, Walcott, Welch, Wheeler, David White, H. S. White, and Wilson.